FINGER METAL-INSULATOR-METAL CAPACITOR DEVICE WITH LOCAL INTERCONNECT

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RELATED APPLICATION DATA

[0001] This application is a division of U.S. Patent Application No. 10/077,450 entitled "Finger Metal-Insulator-Metal Capacitor with Local Interconnect," filed 15 February 2002, AGA

BACKGROUND OF THE INVENTION

[0002] One essential component of integrated circuits is a capacitor. Design and production of capacitors trades off capacity and footprint (together determining density) with manufacturing processes. There will always be an opportunity to introduce a better capacitor design and manufacturing process.

SUMMARY OF THE INVENTION

[0003] The present invention includes methods to produce a finger metal-insulator-metal capacitor. One plate can either be a base conductive layer or overlaying or an additional, deposited layer. Capacitor formation may be integrated with formation of interconnects for other components on the same die. The resulting capacitor has a novel geometry. Particular aspects of the present invention are described in the claims, specification and drawings.

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BRIEF DESCRIPTION OF THE DRAWINGS

[0004] FIG. 1 is a cross section of a die with some devices already formed and covered by an insulator.

[0005] FIG. 2 is a cross section of the same die, with contacts formed and a resist layer patterned.